REFERENCE LIST OF LABORATORY TESTS CABINET FOR HEALTH SERVICES DEPARTMENT FOR PUBLIC HEALTH DIVISION OF LABORATORY SERVICES

Telephone: 502/564-4446

The following is an alphabetical list of agents or conditions for which testing is available for county health departments. The specimen required for each condition, applicable mailing containers and submission forms are listed.

DISEASE/			LAB	
CONDITION	TEST	SPECIMEN	FORM	CONTAINER
ABO Grouping	See Prenatal Profile			
ADENOVIRUS	Isolation	Throat wash, throat swab, eye swab, rectal swab.	#275	Virus isolation swab collection kit.
AIDS		See HIV-I		
AMEBIASIS	Formalin-Hemo D concentrations. Microscopic exam. Trichrome stained slides.	Feces. At least three specimens collected on alternate days.	#219	Intestinal parasites, Two vials – PVA & 10% formalin.
ANTHRAX	Isolation			
NOTE: Call the Division of Epidemiology or the Division of Laboratory Services for specific instructions before collecting any specimen.	Identification (referred culture)	Agar slant: Trypticase soy, blood or chocolate slants	#219	Mailing container furnished by submitter.
ASEPTIC MENINGITIS	Isolation	Feces/rectal swab, throat wash/swab, spinal fluid, autopsy tissue.	#275	Virus isolation swab- collection kit.
BACILLUS ANTHRACIS		See Anthrax		

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BACILLUS CEREUS	Isolation	Feces, urine, rectal swabs, vomitus. NOTE: By request of Epidemiology ONLY in foodborne disease outbreaks. Mark slip "Bacillus cereus"	#219	Enteric Pathogens complete kit with Cary-Blair preservative. Must be refrigerated.
		Food	#504	Refer to the Manual for Environmentalist & Milk Inspectors
	Identification (referred culture)	Agar slant: heart infusion, trypticase soy, blood or chocolate agar slant.	#219	Mailing container furnished by submitter.
BALANTI- DIASIS, BALANTIDIUM COLI	Formalin-Hemo D concentrations & microscopic examination.	Feces. At least three specimens collected on alternate days.	#219	Intestinal parasites, two vials – PVA & 10% formalin.
	Microscopic exam of stained films.	See above.	#219	See above.
BORELLIA BURGDORFERI		See Lyme's Disease		
BORDETELLA PERTUSSIS (WHOOPING COUGH)	Isolation	Call Laboratory Services for specific instructions.		
	Identification (referred culture)	Bordet-Gengou plate or Jones- Kendick medium slant.	#219	Mailing container furnished by submitter.
	Direct FA (agent detection)	Nasopharyngeal smears on 2 slides.	#275	Pertussis FA slide kit.

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CHLAMYDIA TRACHO- MATIS	Nucleic Acid Probe	Urogenital & eye.	#194	PACE 2 specimen collection kit Female & Male. NOTE: Submit ASAP; must be received in the lab within 7 days of collection. Available only through local health department prenatal, family planning clinics,
CHOLERA		See Vibrio Cholera		and STD clinics.
CHOLESTER- OL SCREEN		Serum or whole blood in 7 ml red-stoppered tube.	#230	
CLOSTRIDIUM BOTULINUM		See Botulism		
CONGENITAL HYPO- THYROIDISM	FIA	Dried blood spots.	#228	Newborn screening form.
COXSACKIE VIRUS		See Enterovirus		
CRYPTOCOC- COSIS	Serology	Sera, 5-8 ml clotted blood, or 1-2 ml spinal fluid.	#213	Serology container.
CRYPTO- SPORIDIUM	Microscopic exam of stained slides.	Feces, at least three specimens collected on alternate days.	#219	Intestinal parasites, single vial (10% formalin). Request cryptosporium exam.
CYTOMEGA- LOVIRUS (CMV)	Isolation	Fresh urine, deliver to Lab without delay, keep cold but do not freeze.	#275	Mailing container furnished by sender.
	Serology : EIA	Acute and convalescent sera.	#275	Viral & rickettsial serology kit.

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DIARRHEA	Bacterial culture	SEE Salmonella, Shigella, Campy- lobacter, Vibrio, Escherichia coli 0157:H7, Yersinia, Amebiasis, and Cryptosporidium	W075	W I.
	Viral Isolation	Feces/rectal swab.	#275	Virus isolation swab collection kit.
DIPHTHERIA	Isolation	NOT AVAILABLE		
	Identification (referred culture)	Prefer Loeffler's or Pai slant. May use trypticase soy or heart infusion agar slant.	#219	Mailing container furnished by submitter.
DYSENTERY (AMEBIC)		See Amebiasis.		
ECHO VIRUS		See Enterovirus.		
ENCEPHALITIS VIRAL	Isolation (other than ARBO)	Spinal fluid, feces/rectal swab, throat wash/swab, autopsy tissue.	#275	Virus isolation swab collection kit.
Encephalitis ARBO Viral St. Louis Eastern Equine Western Equine California Grp West Nile Virus	Serology: EIA	Acute and convalescent sera.	#275	Viral & rickettsial serology kit.
ENTERO- BIASIS (PINWORMS)	Direct Examination	Follow kit instructions. Submit specimens on three consecutive days.	#219	Pinworm tube outfit.
ENTEROVIRUS (Coxsackie, ECHO, Reovirus, Polio)	Isolation	Feces/rectal swab, spinal fluid, throat wash/swab, autopsy tissue.	#275	Virus isolation swab collection kit.

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<u>ESCHERICHIA</u>	Isolation	Feces	#219	Enteric pathogens kit with
COLI 0157:H7		Rectal Swabs		buffered glycerol saline.
0137.117		Rectal Swabs	#219	Special kit with Cary-Blair preservative and cold packs. Must be refrigereated. DO NOT FREEZE. Mark slip "Escherichia coli 0157:H7".
	Identification	10 picks from MacConkey sent on separate agar slants without sugar, or 5 picks of colorless colonies from MacConkey D-Sorbitol agar sent on separate heart infusion agar slants.	#219	Mailing container furnished by submitter.
FEBRILE AGGLUTININS	Serology	Serum	#203	Call Serology Section for instructions.
FLUORESCENT TREPONEMA ANTIBODY (FTA)	For diagnostic problem cases only.	See Syphilis		
FRANCISELLA TULARENSIS		See Tularemia		
FOODS: CHEMICAL ANALYSIS	Possible contamination, adulteration, mislabeling, preservatives, & decomposition of foods.	Packaged food.	#504	Available only through county environmentalists.
FOOD AND WATERBORNE DISEASES	Bacteriological exam of milk/ Dairy products. Water bacteriology. Foodborne disease investigations.			Refer to Manual for Environmentalists & Milk Inspectors for all tests.

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GALACTO- SEMIA	Beutler	Heel puncture blood on filter paper.	#228	Newborn screening test kit.
GIARDIASIS	Formalin- Hemo-D concentration and microscopic exam of trichrome stained slides.	Feces. At least three specimens collected on alternate days.	#219	Intestinal parasites two vial container (PVA & 10% formalin)
GLANDERS DISEASE	Identification	TSA, blood, or chocolate agar slant.	#219	Mailing container furnished by submitter.
GLUCOSE	1 hour post 50 gram load.	Plasma, 7ml whole blood in gray stoppered tube.	#230	
GLUCOSE FASTING	1 hour post 50 gram load.	Plasma, 7ml whole blood in gray stoppered tube.	#230	
GLUCOSE TOLERANCE	Done only for Pre & Post Natal Patients.	7 ml whole blood in gray-stoppered tube.	#230	
GONORRHOEA	Nucleic acid probe.	Urogenital swab.	#194	PACE 2 specimen collection kit.
	Smear for gram stain.	MALE: Anogenital sources ONLY. FEMALE: Direct smear not available.	#219	Gonorrhea slide kit.
NEISSERIA GONORRHOEA	Nucleic Acid Probe (Note: Submit probe test ASAP; must be received in lab within 7 days of collection. Available only through local health department, prenatal, family planning, clinics and STD clinics.	Endocervical or urogenital swab.	#194	PACE 2 specimen collection kits.

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<u>NEISSERIA</u>	Isolation	Not available.		
<u>GONORRHOEA</u>				
& OTHER	Identification	Suspected	#219	GC culture container.
NEISSERIA	(referred	N. gonorrhoeae,		
SPECIES	culture)	N. lactamica or		
		N. meningitidis		
	NOTE: All N.	use Martin Lewis		
	gonorrhoeae	or chocolate		
	isolates are	plate in bag with		
	tested for beta-	C02 pill. Other		
	lactamase,	species, use		
	penicillin, &	chocolate agar		
	tetracycline	plate or slant.		
	susceptibility.	Specimen must		
	N. meningitidis	be received		
	isolates are	within 72 hours		
	grouped.	of initial		
		culturing or		
		subculturing.		
		Incubate		
		subcultures 24		
		hours before		
		shipping.		
HAEMOPHILUS	Grouping	Pure culture on	#219	Mailing container
INFLUENZA		chocolate agar.		furnished by submitter.
HEMOLYTIC		(See Rh Factor)		
DISEASE OF				
THE NEWBORN				
HEPATITIS	HbsAg	Serum, NOTE:	#213	Hepatitis Serology kit.
	Anti-HBs	Available only		
	Anti-HBc	through local		
		health		
		department		
		prenatal clinics.		
	Anti-HAV	Serum, NOTE:	#213	Hepatitis Serology kit.
		Available		
		through		
		Epidemiology		

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HERPES SIMPLEX	Isolation	Vesicle Fluid, spinal fluid, throat wash swab, lesion swab.	#275	Virus isolation swab collection kit.
	Antigen detection: DFA	Skin lesion smears in saline on slide.	#275	Herpes FA slide kit.
	Serology: EIA	Acute and convalescent sera.	#275	Viral & rickettsial serology kit.
HERPES ZOSTER		See Chickenpox		
HIV-I	EIA, Western Blot NOTE: Available only	Serum	#197	
	through counseling & testing sites or sexually transmitted disease clinics. Forms and numbered stickers available ONLY from S.T.D.			
HYPOTHYROID		See Congenital Hypothyroidism		
INFLUENZA	Isolation	Nasopharyngeal swab/Throat swab/wash.	#275	Virus isolation swab collection kit.
	Serology:	Acute and convalescent sera.	#275	Viral & rickettsial serology kit.
INTESTINAL HELMINTHS	Formalin- Hemo-D concentration & microscopic examination.	Feces or passed worm. For feces, submit at least three specimens on alternate days.	#219	Intestinal parasites, single vial container (10% formalin)

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INTESTINAL PARASITES		See Intestinal Helminths and		
		Intestinal Protozoa.		
INTESTINAL PROTOZOA	Formalin- Hemo-D concentration 7 microscopic examination. Trichrome Smears.	Feces. Submit at least three specimens on alternate days.	#219	Intestinal parasites, two vial container (PVA & 10% formalin).
INTRAUTERINE INFECTIONS (TORCH AGENTS)	Serology	About 2 ml serum each from child and mother.	#275	Viral & rickettsial serology kit.
LEAD	For information on blood lead screening, call the Louisville-Jefferson County Health Department at 502/574-6530.			
LEGION- NAIRES' DISEASE	DFA (agent detection)	Urine	#275	Mailing container furnished by submitter.
LEPTOSPIROSIS	Agglutination	Acute and convalescent sera.	#213	Serology container.
LIPID PROFILE		Serum or whole blood in 7 ml red-stoppered tube.	#230	
LISTERIA MONO- CYTOGENES	DNA Probe	TSA, or blood agar slant.	#219	Mailing container furnished by submitter.
LITHIUM LEVEL	Provided ONLY for Comprehensive care patients with doctor's order.	Serum	#224	

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LYME DISEASE	Serology	Prior consultation with the Division of Epidemiology.	#275	Viral & rickettsial serology kit.
LYME'S	PCR (CDC)	Tick	#219	Mailing container
DISEASE	Ten (ebe)	Tiek	11217	furnished by submitter.
MALARIA	Microscopic	Thick & thin	#219	Slide and slide mailers are
	exam	blood smears.		provided by sender.
MEASLES		See Rubeola		provided by seemen
MILK & DAIRY	Refer to Manual			
PRODUCTS	for Environ-			
	mentalists and			
	Milk Inspectors.			
MISCEL-	Identification	Tubed media on	#219	Mailing container
LANEOUS	(referred	which the		furnished by submitter.
BACTER-	culture)	organism grows		Service provided only for
IOLOGY	,	best.		problem organisms.
MUMPS	Serology : EIA	Single serum (for	#275	Viral & Rickettsial
		immune status)		serology kit.
		ŕ		
		Acute and		
		convalescent sera		
		(for diagnosis)		
MYCO-		See Tuberculosis		
BACTERIA				
MYOCARDITIS		See Enterovirus		
		Coxsackie		
NEWBORN		See individual		
SCREENING		tests: PKU,		
		Sickle Cell,		
		Congenital		
		Hypothyroid,		
		Galactosemia.		
OPTHALMIA	Microscopic	Smear of	#219	Gonorrhea slide kit.
NEONATORUM	exam.	exudate.		
PERICARDITIS		See Enterovirus-		
		Coxsackie		
PERTUSSIS		See		
		BORDETELLA		
		PERTUSSIS		

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PHENYL- KETONURIA	EIA	Heel puncture blood on filter	#228	Newborn screening kit.
(PKU)		paper. See Enterobiasis		
PINWORMS POLIOMYE-		See Enterobiasis See Enterovirus		
LITIS		See Enterovirus		
PRENATAL	Rh/Ab	Two full 7 ml	#212	Prenatal profile kit
PROFILE	VDRL HbsAg	clot tubes.		available through prenatal clinics or local health
	Rubella ABO Typing			department.
RABIES IN	Microscopic	Animal Head	#254	Rabies shipping container.
ANIMALS	exams: Isolation if human exposure case.	(refrigerated)		
REOVIRUS		See Enterovirus		
RESPIRATORY SYNCYTIAL	Isolation	Throat wash/ Swab (Do not	#275	Virus isolation swab collection kit.
VIRUS		freeze, but keep cold.)		
		NOTE: Rush, virus not stable.		
Rh FACTOR	Rh determin-	8-10 ml whole	#213	Serology container.
(HEMOLYTIC	ation (D and DU	blood.		
DISEASE OF THE NEWBORN	factors)			NOTE: Available only through local health
ONLY)	Atypical antibody screen and identification.	8-10 ml whole blood		department prenatal clinics.
RHEUMATIC		See		
FEVER		Streptococcal Infection		
ROCKY	Serology	Acute and	#275	Viral & rickettsial
MOUNTAIN		convalescent		serology kit.
SPOTTED FEVER		sera.		
TEVER				

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RUBELLA (German Measles)	Serology: EIA: IgG	Single serum (for immune status) Acute and convalescent sera (for diagnosis)	#275	
	EIA: IgM	Serum for diagnosis	#213	NOTE: Prior approval from the Division of Epidemiology.
RUBEOLA (MEASLES)	Serology: EIA: IgG	Single serum (for immune status)	#275	Viral & rickettsial serology kit.
	EIA: IgM	Serum for diagnosis		
SALMONELLA (ALL SERO- TYPES)	Isolation	Feces, urine, rectal swabs.	#219	Enteric pathogens kit with buffered glycerol saline preservatives.
		Rectal Swabs	#219	Special kit with Cary- Blair preservative and cold packs. Must be refrigerated. DO NOT FREEZE. Mark slip "Salmonella"
		Food	#504	Refer to the Manual for Environmentalists and Milk Inspectors.
	Identification (referred culture)	Agar slant: heart infusion, trypticase soy, blood or chocolate agar slant.	#219	Mailing Container furnished by submitter.

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SHIGELLA	Isolation	Feces, urine, rectal swabs	#219	Enteric pathogens kit with buffered glycerol saline.
		Rectal Swabs	#219	Special kit with Cary- Blair preservative and cold packs. Must be sent refrigerated. DO NOT FREEZE. Mark slip "Shigella".
		Food	#504	Refer to Manual for Environmentalists and Milk Inspectors
	Identification (referred culture)	Agar slant: Heart infustion, trypticase soy, blood or choco- late agar slant.	#219	Mailing container furnished by submitter.
SICKLE CELL	Electrophoresis	Heel punctue blood on filter paper.	#228	Newborn screening form.
SPORO- TRICHOSIS	Serology	5 ml clotted blood or serum	#213	Serology container.
STAPHYLO- COCCUS AUREUS	Isolation	Feces, vomitus	#219	Enteric patogens kit with buffered glycerol saline. Only by request of the Division of Epidemiology.
		Nasal swabs, skin, skin lesions	#219	Swabs in sterile tubes. Only by request of the Division of Epidemiology.
		Food	#504	Refer to Manual for Environmentalists and Milk Inspectors. Only by request of the Division of Epidemiology for foodbourne disease outbreaks.
STREPTO- COCCAL INFECTION	Culture and identification of agent by DFA (Group A only)	Throat swab in silica gel	#275	Hemolytic streptococcus swab kit.

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SYPHILIS	VDRL	Clotted blood,	#213	Syphilis serology kit.
	Qualitative &	serum, or spinal		
NOTE: Requests	Quantitative	fluid.		
for the FTA-ABS				
test must be	FTA-ABS	Serum	#213	Syphilis serology kit.
preceded by a screening test.				
TAPEWORM	Macroscopic &	Feces and/or	#219	Intestinal parasites, single
TALEWORM	microscopic	worm. For feces,	πΔ1)	vial container (10%
	exam, formalin	submit at least		formalin); Sterile jar with
	Hemo-D	three specimens		10% formalin or 70%
	concentrations.	on alternate days.		ethyl alcohol for the
				worm.
TORCH TITER		See Intrauterine		
movio	g 1	Infections.	W057	Tr. 10 D. 1
TOXO-	Serology: IFA	Congenital cases: serum from	#275	Viral & Rickettsial
PLASMOSIS				Serology Kit
		mother and child.		
		Acquired cases:		
		serum.		
TRICHINOSIS	Microscopic	Biopsy of muscle	#219	Intestinal parasites single
	exam	(for food, see		vial container (10%
		"Manual for the		formalin)
		Sanitarian'')		
	Bentonite	5ml whole blood	#213	Serology container
	flocculation	or serum	11213	Scrology container
TRIGLYCERIDE	nocculation	See Lipid Profile		
TUBER-	Microscopic	Sputum, gastric	#207	TB specimen kit
CULOSIS	exam, culture	wash*, spinal		
	identification by	fluid, pleural		
	DNA Probe or	fluid, pus, urine,		
	HPLC, drug	other body		
	susceptibility	fluids.		
	studies.	*Gastric wash		
		must be		
		neutralized		
		before mailing.		
		D.C. 1. 1.		3.6.11
		Referred culture		Mailing container
		for identification		furnished by submitter.
		and drug susceptibility studies.		
		romty studies.		1

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TULAREMIA	Agglutination test	Acute and convalescent sera.	#213	Serology container.
	Identification (Referred culture)	Chocolate agar slant.	#219	Mailing container furnished by submitter.
TYPHOID	Culture	Feces, urine	#219	Enteric pathogens kit.
	Isolation	Feces, urine, rectal swab	#219	Enteric pathogens basic kit with buffered glycerol saline.
		Rectal swabs		Enteric pathogens special kit with Cary-Blair preservative. Must be refrigerated. DO NOT FREEZE. Mark slip "Salmonella typhi".
SALMONELLA SEROTYPE TYPHI	Antigenic typing	Culture agar or slant without sugar.	#219	Mailing container furnished by submitter.
TYPHUS, Murine (ENDEMIC)	Serology	Acute and convalescent sera	#275	Viral & Rickettsial serology kit.
UNDULANT FEVER		See Brucellosis		
VARICELLA ZOSTER		See Chickenpox		
VDRL		See Syphilis		
VIBRIO CHOLERAE AND OTHER VIBRIO SPECIES	Isolation	Feces, urine, rectal swabs	#219	Enteric pathogens special kit with Cary-Blair preservative. Must be refrigerated. DO NOT FREEZE. Mark slip "Vibrio".
	Identification (referred culture)	Agar slant: heart infusion, trypticase soy, chocolate or blood agar slant.	#219	Mailing container furnished by submitter.

NOTE: For bacteriological and chemical water analyses, all samples must be collected and submitted by authorized collectors. All samples from private sources must be received within 48 hours of collection. All samples from public drinking water systems must be received within 30 hours of collection. If additional tests are needed, contact the Division of Laboratory Services.

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WATER:	Fecal coliform	Recreational	#507	Refer to the Manual for
BACTERIO-	count & total	water.		Environmentalists & Milk
LOGICAL	coliform count.			Inspectors for all tests.
ANALYSES				
	Heterotrophic	Recreational	#507	
	plate count	water.		
	pade count	, , , , , , , , , , , , , , , , , , ,		
	Pseudomonas	Water from spas.		
	1 Soudonnonas	, ater from spas.	#507	
	Total coliform	Drinking water.		
	count and E.			
	coli count.			
	Presence or	Water from	#507	
	absence of total	dairies.		
	coliforms & E.			
	coli.			
WATER:	Alkalinity	Drinking water	#700b	Chemical analysis
CHEMICAL	Calcium	from private		cubitainer.
ANALYSES	Chloride	supplies.		
	Color			
	Fluoride			
	Hardness			
	Iron			
	Magnesium			
	Manganese			
	Nitrates			
	Odor			
	PH			
	Solids			
	Sulfate			
	Turbidity			
	Dental Fluoride		#505c	Call CHS-DPH Maternal
				and Child Health.
	Metals		#504	Metal Cubitainer
	Pesticides		#504	Call the lab.
	Petroleum		#504	Call the lab.
	Products		#304	Can the lau.
WHOOPING	Troducts	See Bordetella		
COUGH		See Doiuciena		
COOGII				

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YERSINIA PESTIS (PLAGUE)	NOTE: Call the Division of Epidemiology or the Division of Laboratory Services for			
	specific instructions			
	before collecting any specimens.			
YERSINIA SPECIES OTHER THAN YERSINIA PESTIS	Isolation	Feces, urine, rectal swabs	#219	Enteric pathogen kit with buffered glycerol saline. By request only. Mark slip "Yersinia". Enteric pathogen special kit with Cary-Blair
				preservative. Must be sent refrigerated. DO NOT FREEZE. Mark slip "Yersinia".
	Identification	Agar slant: heart infusion, trypticase soy, blood or chocolate agar slant.	#219	Mailing container furnished by submitter.

If you need any tests which are not listed in the above reference, please contact our Laboratories at 502/564-4446.

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